

ABSTRACT OF THE DISCLOSURE

A radio communication apparatus includes a received beam generating section 12 for generating received beams beam0 and beam1, which are perpendicular to each other and spatially separated, by assigning weights to received signals fed from receiving antennas 11 by using received beam weights; path search sections 13 and 14 each for outputting path information when the received beams beam0 or beam1 includes a spread signal spread by a known spreading code; a demodulating section 16 for outputting demodulation data by receiving the received beams beam0 and beam1 and by RAKE combining them in response to the path information; and a feedback control section 15 for outputting selection information 101 by selecting a transmission beam to be transmitted in response to the path information and the phase difference between the received beams beam0 and beam1 fed from the demodulating section 16.